

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match. The on-screen version of the Collider-Accelerator Department Procedure is the Official Version. Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A.*

C-A OPERATIONS PROCEDURES MANUAL

ATTACHMENT

4.56.au RHIC Zone 10z1 Sweep Checklist

Text Pages 2 through 3

C-A OPM Procedures in which this Attachment is used.
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4.56		

Hand Processed Changes

<u>HPC No.</u>	<u>Date</u>	<u>Page Nos.</u>	<u>Initials</u>
_____	_____	_____	_____
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Approved: _____ ***Signature on File*** _____
 Collider-Accelerator Department Chairman _____ Date _____

P. Ingrassia, W. MacKay

RHIC Zone 10z1 Sweep Checklist

Team Leader (TL) _____ Sweeper#2 (S2) _____

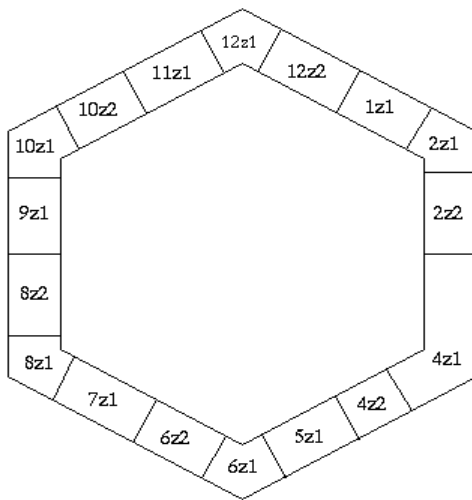
Time: _____ Date: _____

Warning:

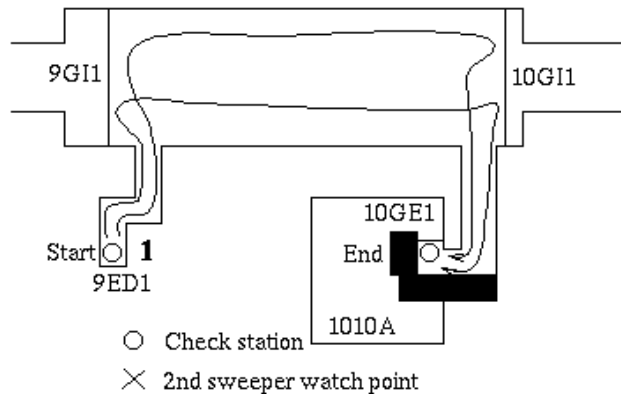
IF any workers are encountered during the sweep, **THEN** contact the OC to see if the sweep should be aborted. Workers shall leave the enclosure **WITH** the sweep team. **IF** the workers crash out of the enclosure **AND** do not exit with the sweep team, **THEN** the sweep shall be re-started.

Prerequisites

- Two persons to perform the sweep,
- At least one sweeper not restricted from working at heights over five feet.
- Contact PHOBOS experimenters to turn off spectrometer so that sweepers may pass barricades
- RHIC Zone 10z1 Sweep Checklist (two pages)
- Zones 9z1 and 10z2 should be swept first.
- Required Tools: at least **ONE FLASHLIGHT**,
- Walkie-talkies
- All Doors closed THEN 10z1 set to Controlled Access
- Keys: TWO Sweep Reset keys S/R015 (one each sweeper), Controlled Access key CA014 (Team leader)



Zone 10z1



Note:

References to positions in the tunnel are made using the RHIC magnets. The identity of the local magnet can be determined by looking up at the "lower" cable tray and reading the magnet name on a blue (B) or yellow (Y) label. For example, the convention used is: I05Q17 (Inside, Q17) or O-05Q17 (Outside, Q17).
References are for inside locations and are visible only by the Team Leader

CONTINUED ON REVERSE SIDE

Note:

Before beginning the sweep:

- Contact the experiment to tell them a sweep will be performed.
- Ask the experiment to turn off their magnet(s)
- IF magnet(s) cannot be turned off THEN carry no ferrous objects while sweeping near the magnet(s) and obey postings and fencing to stay away from fields greater than 500 gauss.

Check

- ___ 1. Sweep team enters 10z1 after TL requests simultaneous release from MCR (10GE1 is the recommended entry door).
- ___ 2. TL opens 10GE1 gate by turning the CA014 key clockwise, in the Controlled Access key-switch while Operator in MCR presses simultaneous release for 10GE1.
- ___ 3. Sweep Team walks Counter Clockwise (CCW) around RHIC to 9ED1 gate
- ___ 4. TL resets gate 9ED1 using the S/R015 key in the RESET keyswitch.
- ___ 5. TL observes the yellow RESET lamp is lighted
- ___ 6. TL STARTS SWEEP by turning the S/R015 key CW in the SWEEP key-switch (10XCS1)
- ___ 7. TL observes AREA SECURED lamp blink once.
- ___ 8. Sweep Team sweeps up the labyrinth to the experiment hall
- ___ 9. Sweeper 2 passes to the outside (farside) of the tunnel.
- ___ 10. Sweep Team sweeps Clockwise (CW) around RHIC.
- ___ 11. Sweep Team uses flashlight to view overhead cryogenic penetration tunnel at 09Q1.
- ___ 12. Sweep Team sweeps barricaded area (if present) around PHOBOS spectrometer
- ___ 13. S2 "passes through" orange barrier fence and makes sure barrier is in place before moving on
- ___ 14. IF not padlocked, S2 checks fan duct access doors at both sides of PHOBOS spectrometer.
- ___ 15. S2 exits the barricade by passing through the second orange fence – making sure the barrier is in place before moving on
- ___ 16. Sweep Team sweeps Clockwise (CW) around RHIC.
- ___ 17. Check the overhead cryogenic penetration tunnel at I-10Q1.
- ___ 18. TL Checks air duct at I-10Q1.
- ___ 19. Sweep Team sweeps to 10GI1.
- ___ 20. TL observes the yellow RESET lamp is lighted and 10GI1 is RESET
- ___ 21. S2 joins TL
- ___ 22. Sweep Team sweeps down labyrinth to 10GE1, and verifies BIG ORANGE doors are secured with brass PASS padlock.
- ___ 23. Sweep Team sweeps to 10GE1.
- ___ 24. TL ENDS SWEEP by turning the S/R015 key SWEEP key in the SWEEP keyswitch on 10XCS2.
- ___ 25. TL observes the yellow AREA SECURED lamp is lighted
- ___ 26. TL contacts MCR for simultaneous release for gate 10GE1.
- ___ 27. Sweep Team sweeps out zone 10z1 through the 10GE1 door (10GE1 is an RCA gate RESETable from MCR).
- ___ 28. TL contacts MCR and confirms that gates are reset and 10z1 zone indicates sweep is good.

Note:

IF the AREA SECURED, and GATE RESET lamps are not lit THEN contact MCR to verify that gate(s) are reset and sweep is good

- ___ 29. After returning keys to keytree in MCR, TL RESETS 10GE1 from the RHIC panel view in MCR.
- ___ 30. After returning to MCR and verifying that all information is filled out completely, TL files the checklist in FY_xx Sweep Log binder.